IAP6 Rec'd PCT/PTO 28 SEP 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
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TRANSMITTAL LETTER TO		ATTORNEY'S DOCKET NUMBER 4633-0184PUS1					
DESIGNATED/ELECTED	U.S. ARPUICATION NO. (Eknows, see 37 CFR 1.5)						
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED -					
PCT/JP2005/005588	25 March 2005	31 March 2004					
TITLE OF INVENTION HEAT EXCHANGER							
APPLICANT(S) FOR DO/EO/US							
Shuji IKEGAMI and Hirohiko MATSUSHITA Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other Information:							
1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
3. X This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4. The US has been elected (Article 31).							
5. X A copy of the International Application as filed (35 U.S.C. 371 (c)(2))							
a. is attached hereto (required only if not communicated by the International Bureau).							
b. x has been communicated by the	e International Bureau (WO 2005/09834	40 A1)					
c. is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. x An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
a. x is attached hereto.							
b. has béen previously submitted under 35 U.S.C. 154(d)(4).							
7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))							
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated by the International Bureau.							
c. have not been made; however, the time limit for making such amendments has NOT expired.							
d. x have not been made and will not be made.							
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern docum	nent(s) or information included:	·					
11. x An Information Disclosure Statem	nent under 37 CFR 1.97 and 1.98.						
12. x An assignment document for record	ding. A separate cover sheet in complia	ance with 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.							
4. An Application Data Sheet under 37 CFR 1.76.							
15. A substitute specification.							
16. A power of attorney and/or change	e of address letter.						
7. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.							
A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19. ☐ A second copy of the English lang	uage translation of the international ap	oplication under 35 U.S.C. 154(d)(4).					
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U.S. APPLICATION OF THE STATE OF STATE						ATTORNEY'S DOCKET NUMBER 4633-0184PUS1						
20. X Other items or information: Return Receipt Postcard PCT/IB/304 & PCT/IB/308 PCT/ISA/210 Seven (7) Sheets of Formal Drawings												
The foil	owina fe	es have	been submi	tted			CALCULATIONS PTO USEONLY					
The following fees have been submitted 21. x Basic national fee (37 CFR 1.492(a))\$300					\$ 300.00			OSEONLY				
22. x Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations \$200						\$ 200.00						
Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an international Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB. \$400 All other situations \$500						\$ 400.00						
			and 23 =				\$	900.0	0			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						-						
Total Sheets	Extra Sh	neets		ch additional 50 or fraction nd up to a whole number)	1	RATE						
27 -100=		/50 =		x \$250.00								
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).						\$			_			
CLAIMS	3	NUM	BER FILED NUMBER EXTRA RATE									
Total clair	ns	1.	2 - 20 =	0	x	50,00		0.00				
Independent			1 - 3 =	0	×	200.00	0.00					
MULTIPLE DEP	ENDENT	CLAIM(S) (if applicable)	(if applicable) + 360.00					360.00			
TOTAL OF ABOVE CALCULATIONS :							\$ 1,260.00					
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.												
SUBTOTAL :					SUBTOTAL =	\$ 1,260.00						
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$						
TOTAL NATIONAL FEE					\$ 1,260.00							
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +							.00					
\$												
TOTAL FEES ENCLOSED =					\$ 1,300.00			.00				
					Amor	unt to be ded:	\$					
					Amor	unt to be jed	\$					

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a. X A check in the amount of \$ 1,300.00 to cover the a	bove fees is enclosed.				
b. Please charge my Deposit Account No. 02-2448 in the and A duplicate copy of this sheet is enclosed.	amount of \$ to cover the above fees.				
c. X The Commissioner is hereby authorized to charge any additional fe Account No. 02-2448 A duplicate copy of this sh					
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the international Application to pending status.					
SEND ALL CORRESPONDENCE TO:	SIGNATURE				
Date: September 28, 2006	D. Richard Anderson				
CUSTOMER NUMBER: 02292	40.400				
	40,439 REGISTRATION NUMBER				